

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 59-035026

(43)Date of publication of application : 25.02.1984

(51)Int.Cl.

C01G 23/00
B01D 53/36
B01J 23/10
B01J 23/22
B01J 23/24
B01J 23/34
B01J 23/70
C04B 35/46

(21)Application number : 57-143665

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(22)Date of filing : 19.08.1982

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MATSUDA TOSHIAKI**(54) PREPARATION OF CALCINED TITANIUM OXIDE AND CATALYST**

(57)Abstract:

PURPOSE: To prepare the titled calcined material, having a large surface area and improved strength and heat resistance, and suitable for a catalyst or a catalytic carrier, by calcining metatitanic in the form of a sol containing a tungsten compound and/or a molybdenum compound.

CONSTITUTION: Metatitanic acid in the form of a sol containing a tungsten compound, e.g. tungsten oxide, and/or a molybdenum compound, e.g. molybdenum oxide, as an additive is calcined to prepare a calcined titanium oxide. The tungsten compound or molybdenum compound or both are used as an additive and present in the metatitanic acid in the form of the sol, and the resultant metatitanic acid is calcined to suppress the crystal growth of the titanium oxide and make the titanium oxide remain in the ungrown anatase type crystal in the calcination. Thus, the aimed calcined material having a large surface area and improved mechanical strength and heat resistance can be obtained. The resultant calcined titanium oxide is used as a carrier for supporting a specific metallic oxide to give an unconventional improved catalyst for removing nitrogen oxide having the synergistic action of the respective oxides in the carrier and the metallic oxide.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

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[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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